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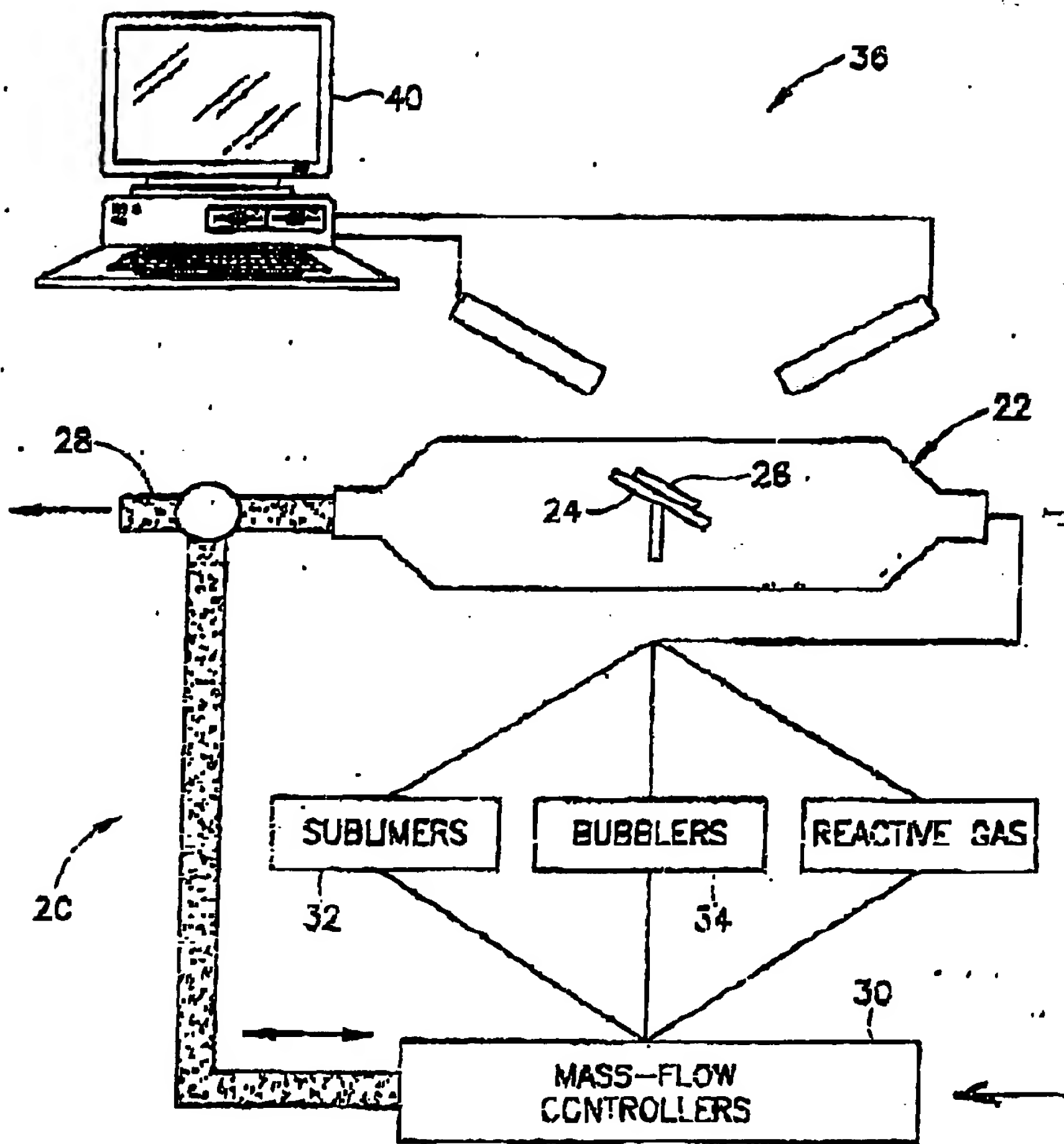


FIG.1

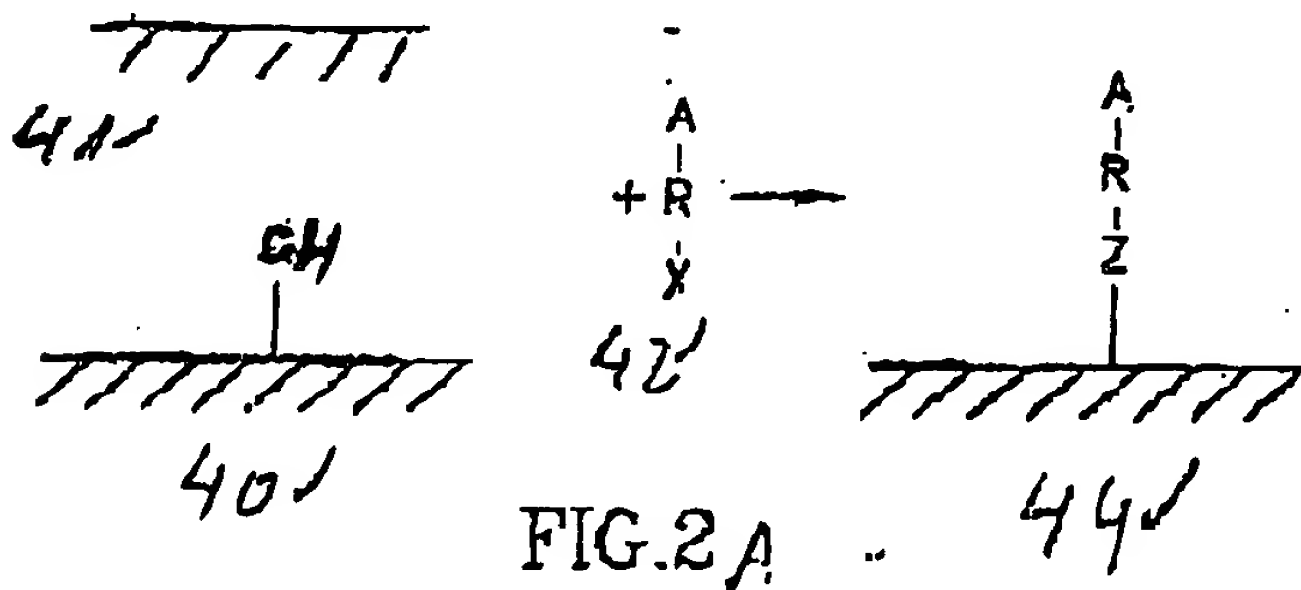


FIG.2A

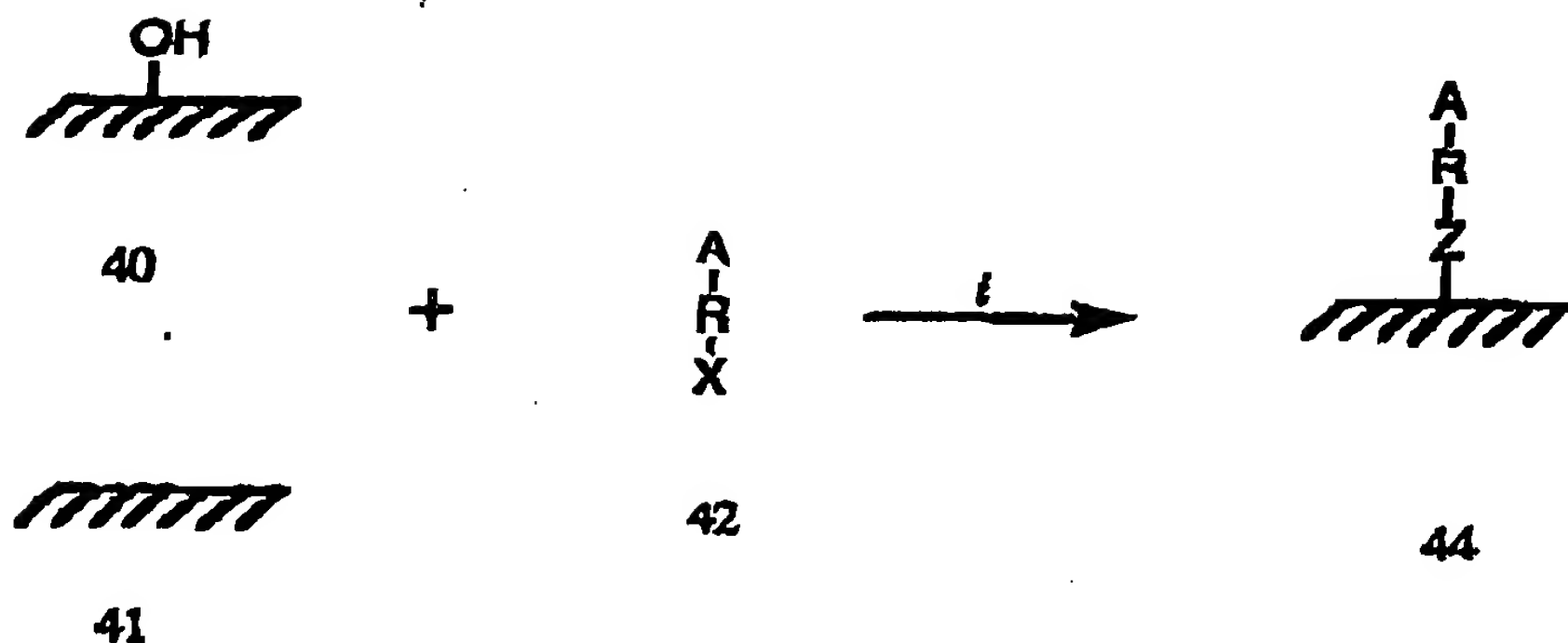


FIG.2A

Substrate	Coupling Agent (X = silane or thiol)	Template Layer (Z = siloxane or metal-sulfide)
<p>MO<sub>x</sub> M = Si, Ti, In, Fe, ...</p> <p>40</p>	<p>A = -NH<sub>2</sub> or </p> <p>R = alkyl or phenyl</p> <p>Y = halogen or alkoxy</p> <p>42</p>	<p>44</p>
<p>M or MM' M = Au, Pt, Cu, ... MM' = GaAs, CdSe, ...</p> <p>41</p>	<p>NH<sub>2</sub></p> <p>R = alkyl or phenyl</p> <p>42</p>	<p>44</p>

FIG.2B

FIG. 2A and FIG. 2B

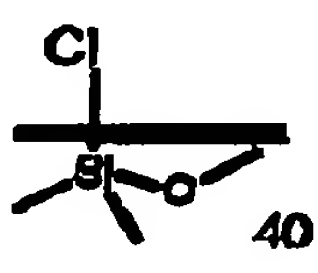
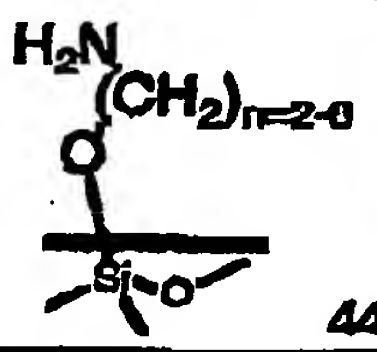
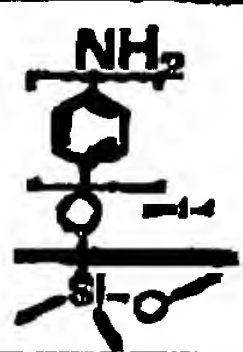
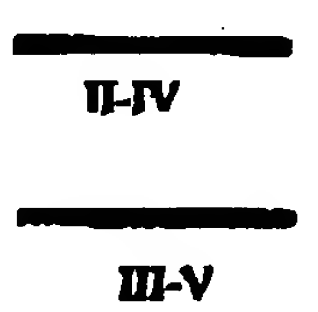
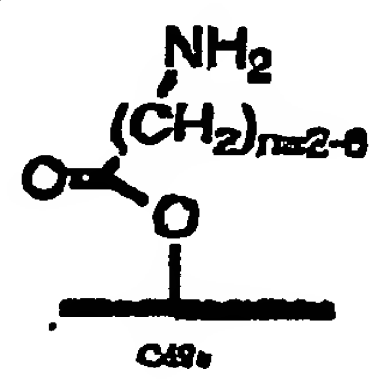
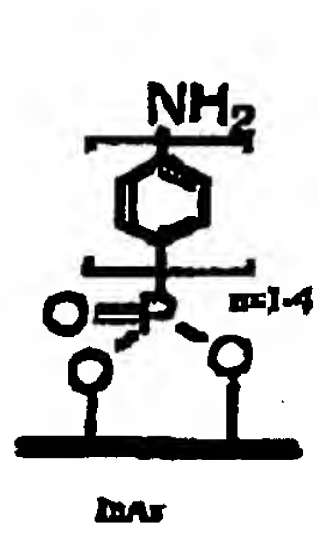
Substrate	Coupling Agent (X = OH, CO <sub>2</sub> H, PO <sub>3</sub> H <sub>2</sub> )	Template Layer (Z = alkoxy, amino, phosphate, or carboxylate)
 40	$\text{HO-R-NH}_2$ 42 R = alkyl or phenyl	 44 
 41	$\text{HOOC-R-NH}_2$ $(\text{HO})_2\text{OP-R-NH}_2$ 42 R = alkyl or phenyl	 44 

FIG.2B cont'd

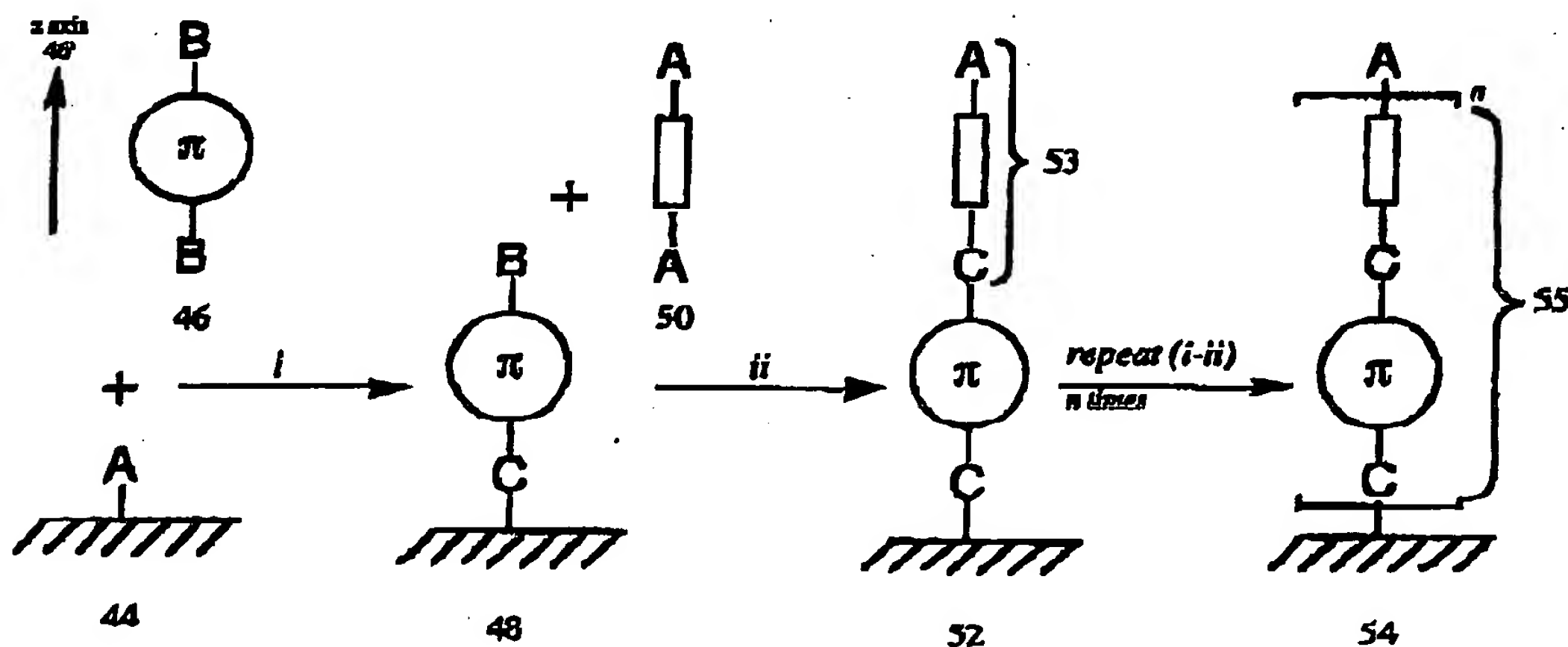


FIG.3A

A	B	C		Ins./SC	Cond./SC	
$-\text{NH}_2$						
$\text{R}_2\text{NH}_2$ $\text{R}_2\text{NH}_2$				$\text{A}-\text{[ ]}-\text{A}$	$\text{B}-\text{[ ]}-\text{B}$	Ins./Cond.
$-\text{NH}_2$				$-(\text{CH}_2)_n-$ $n=1-12$	 oligothiophene $n=1-6$	
$-\text{SiCl}_3$	$-\text{OH}$			 $n=0-5$	 oligoaniline $n=1-6$	
	$-\text{OH}$			$\text{B}-\pi-\text{B}$	$\text{A}-\pi-\text{A}$	SC/SC
				naphthalene perylene terylene anthracene pentacene	porphyrine phthalocyanine	

FIG.3B

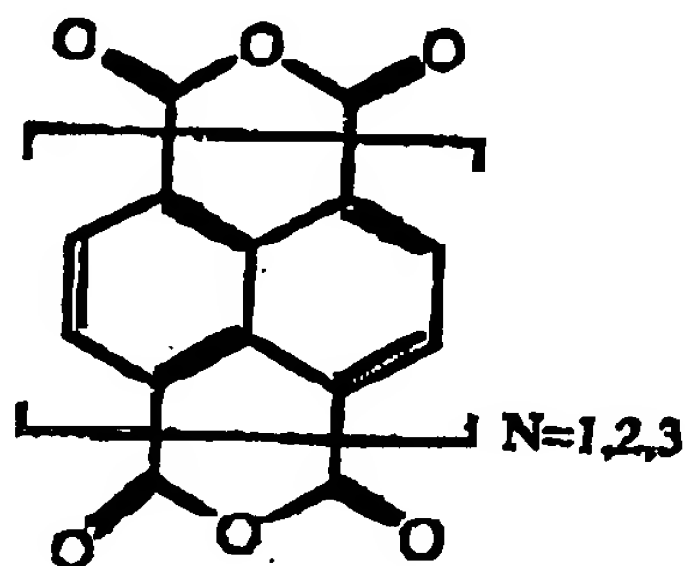


FIG.4A

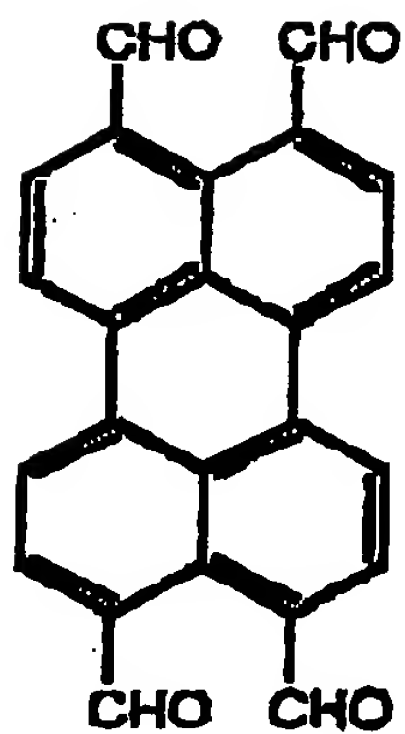


FIG.4B

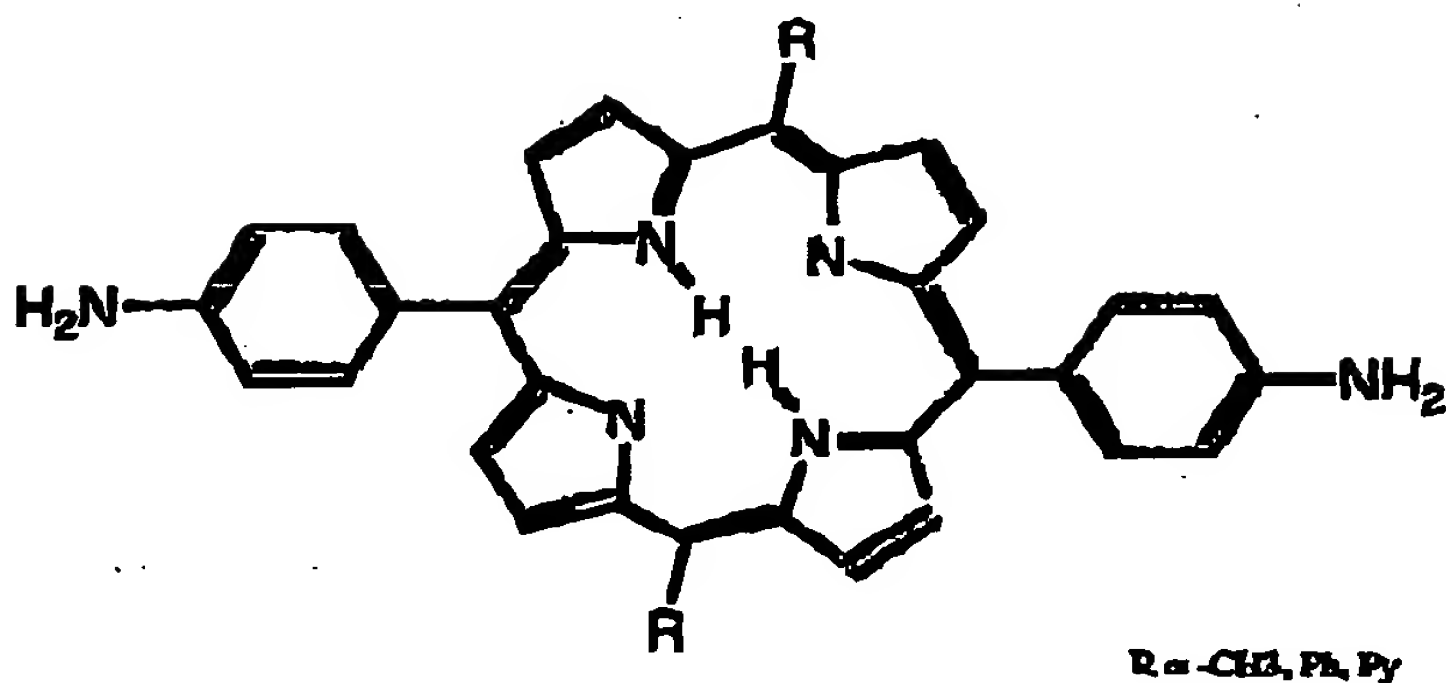


FIG.4C

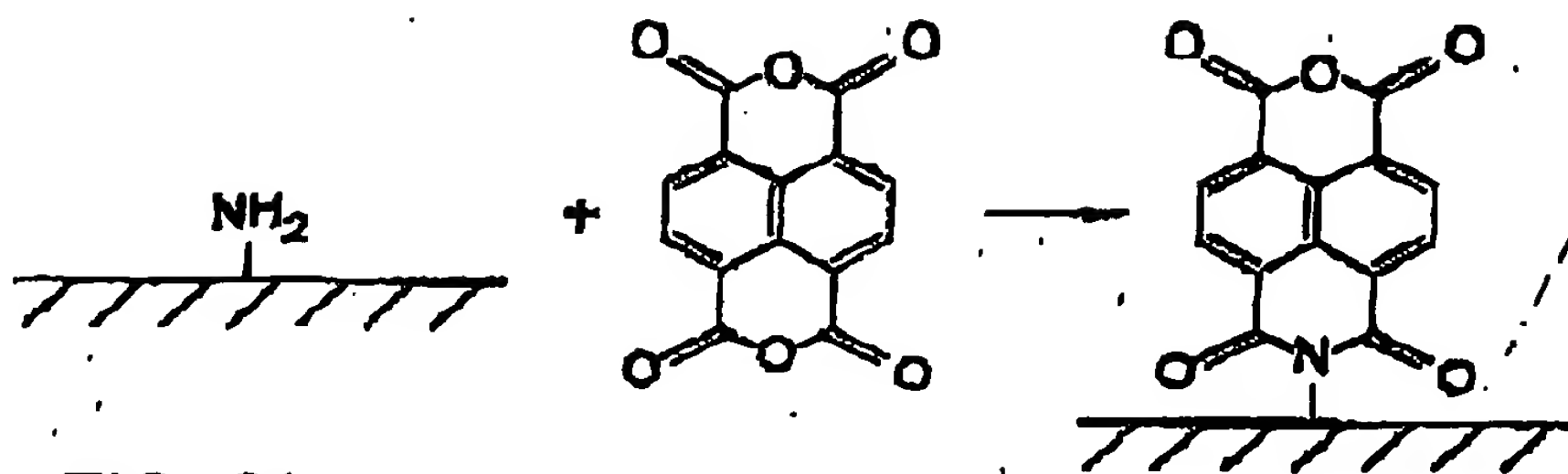


FIG. 5A

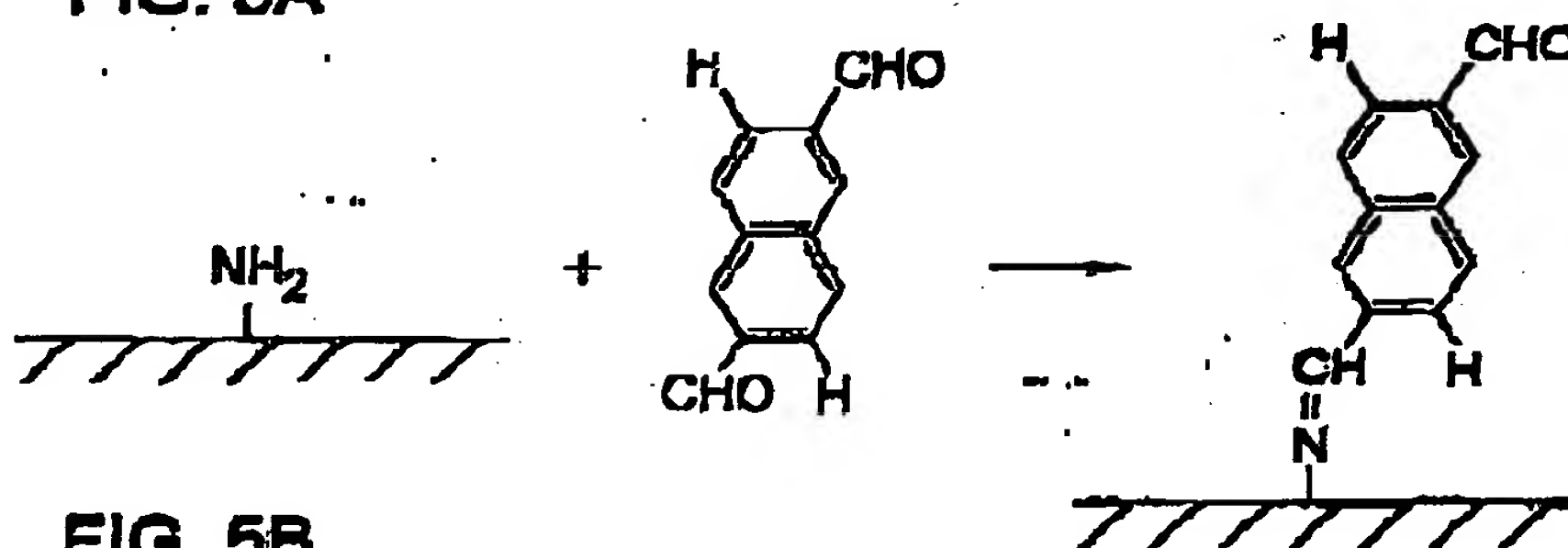


FIG. 5B

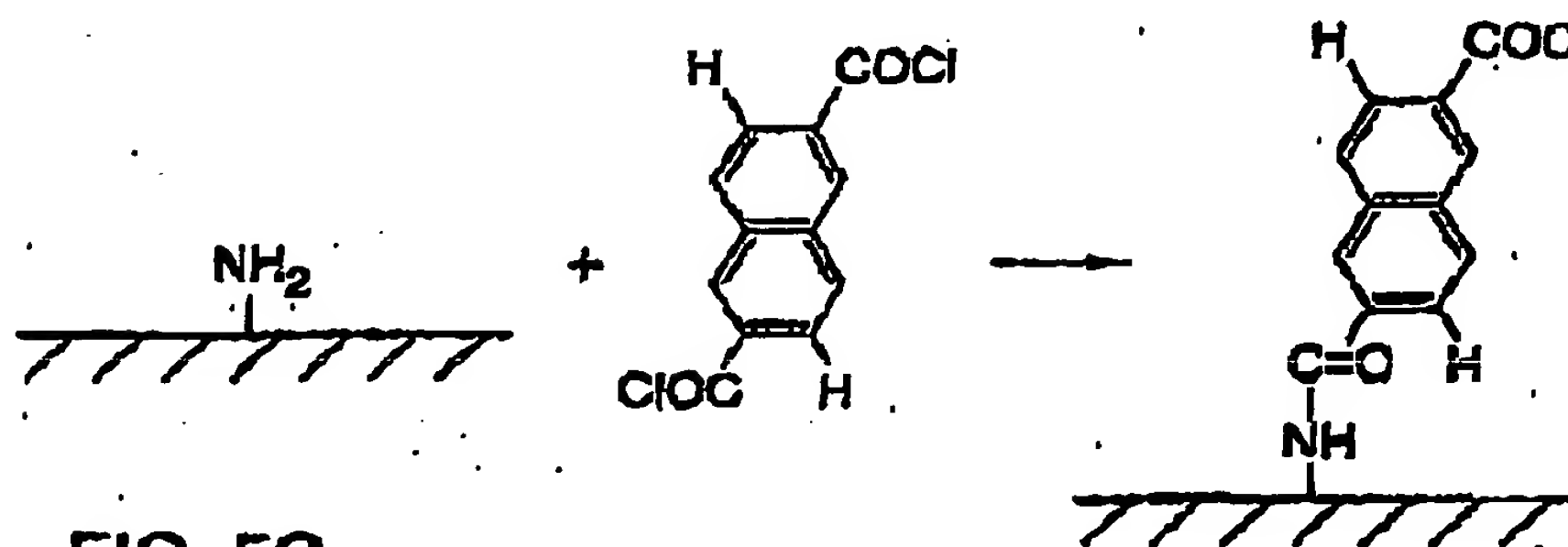


FIG. 5C

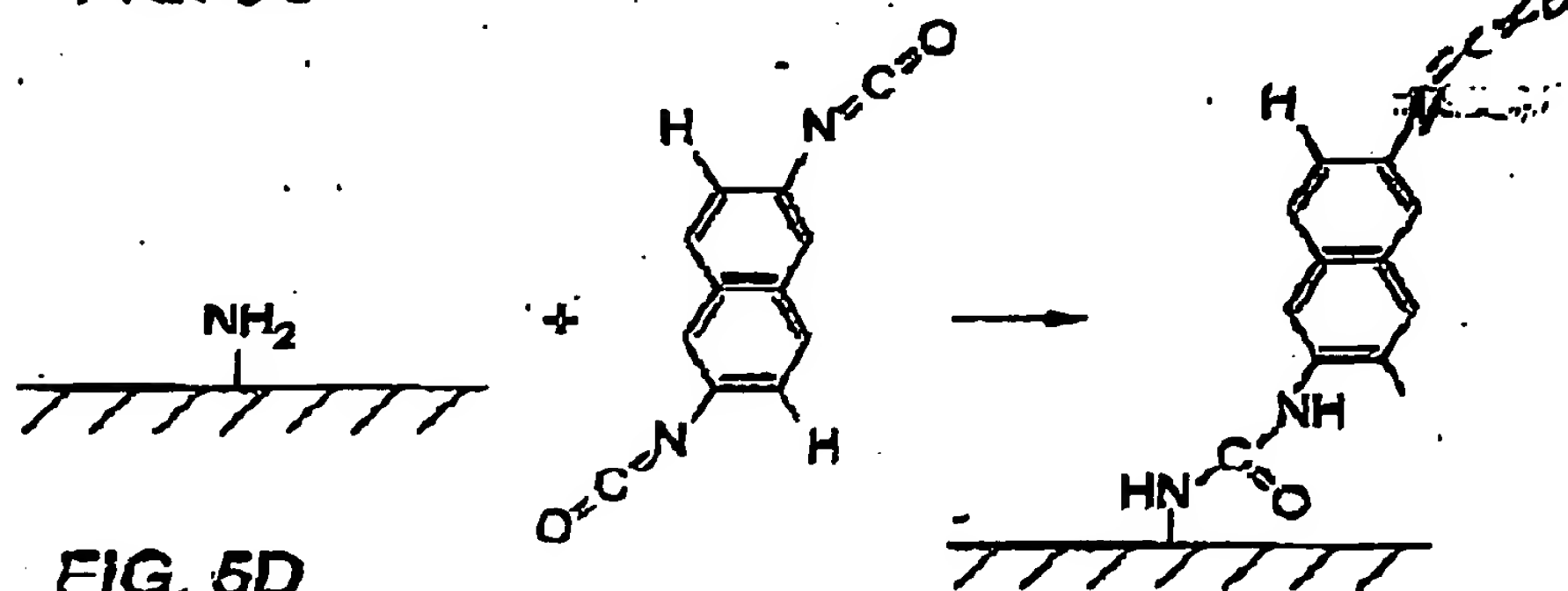
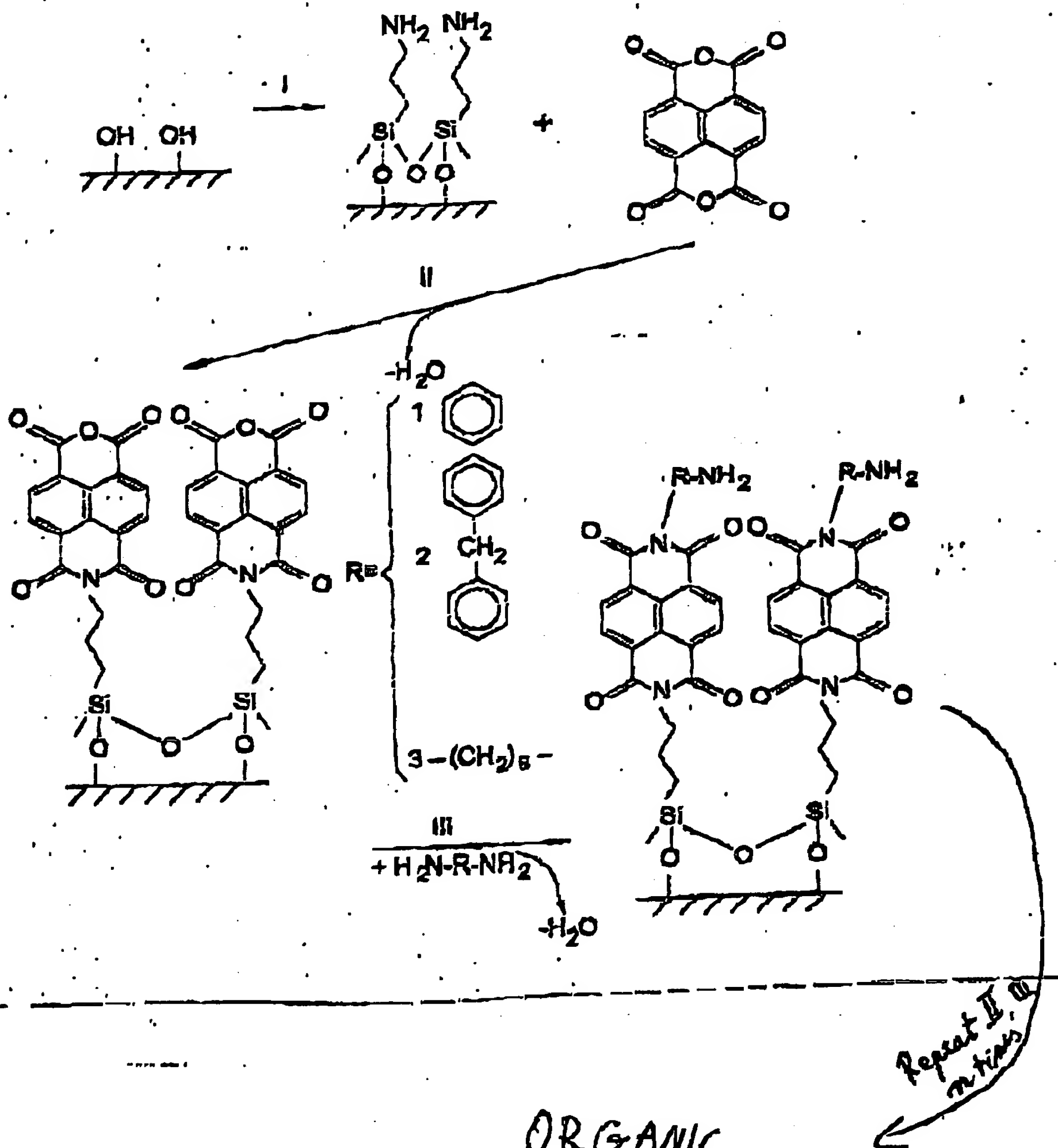


FIG. 5D

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Fig. 6

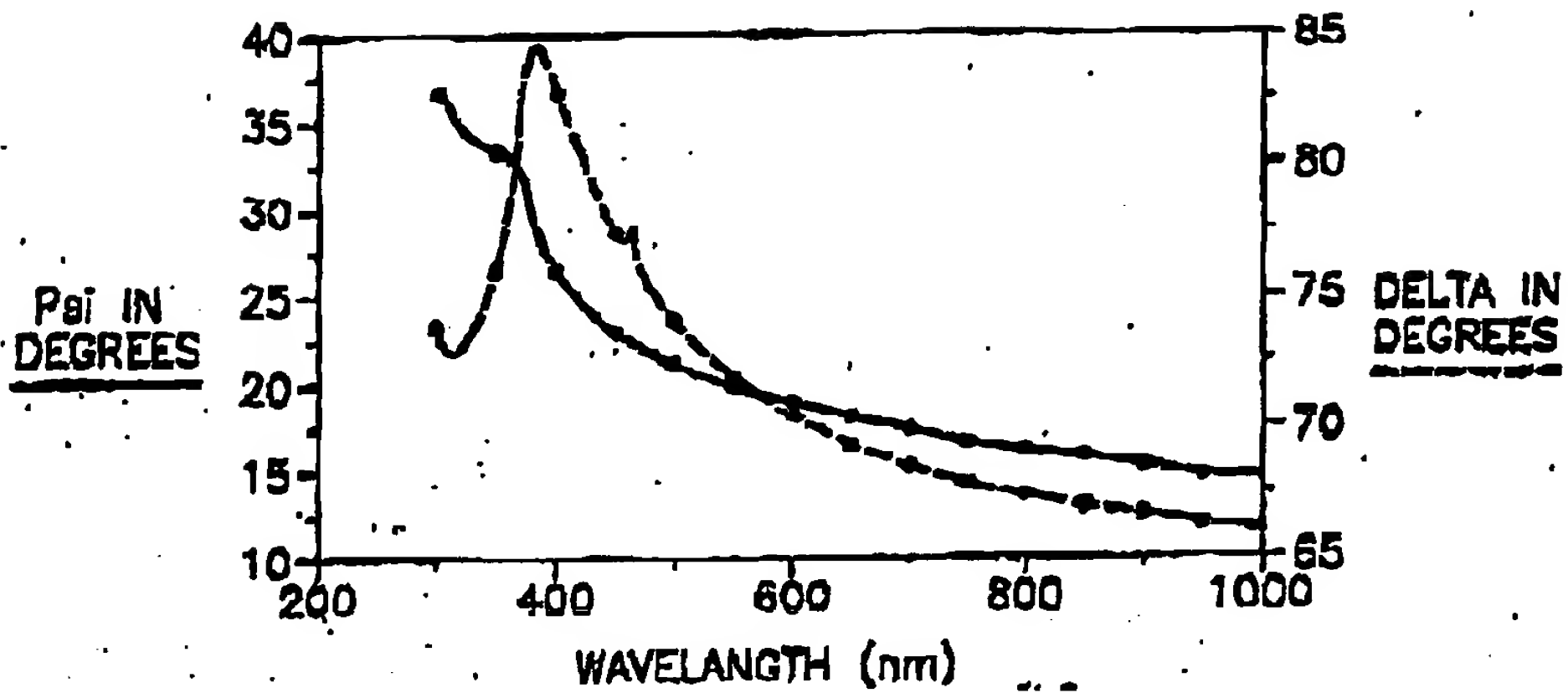


FIG.7

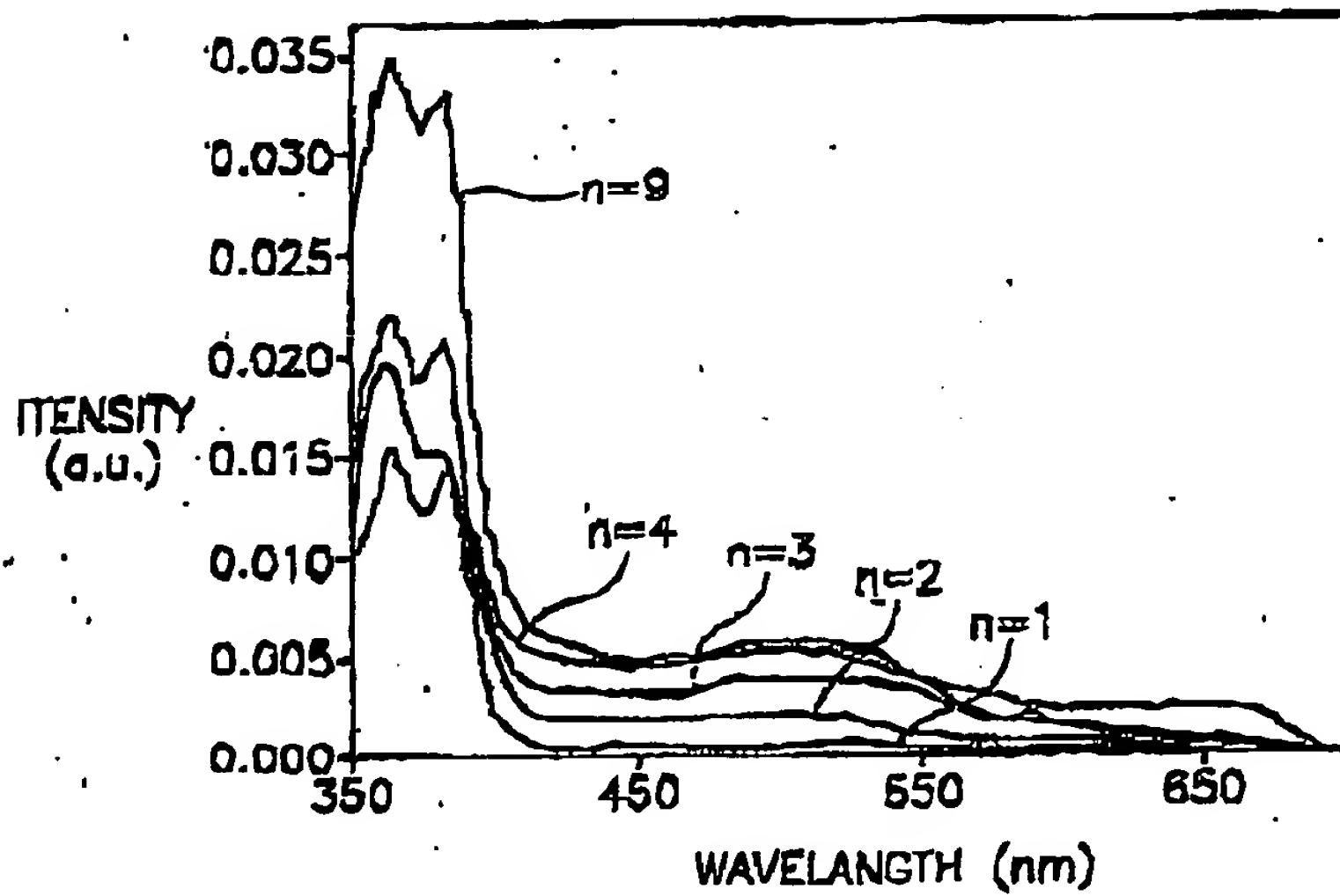
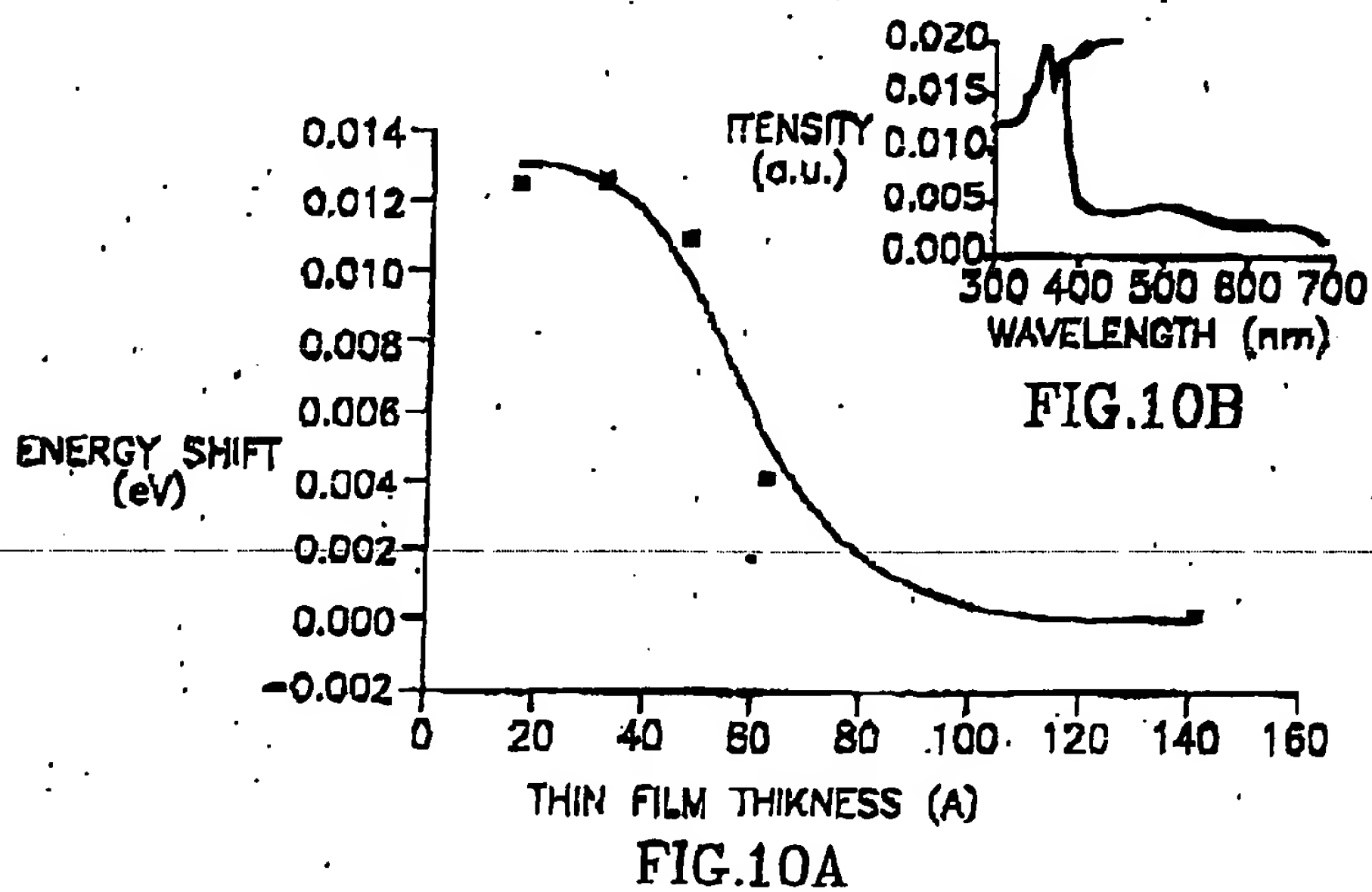
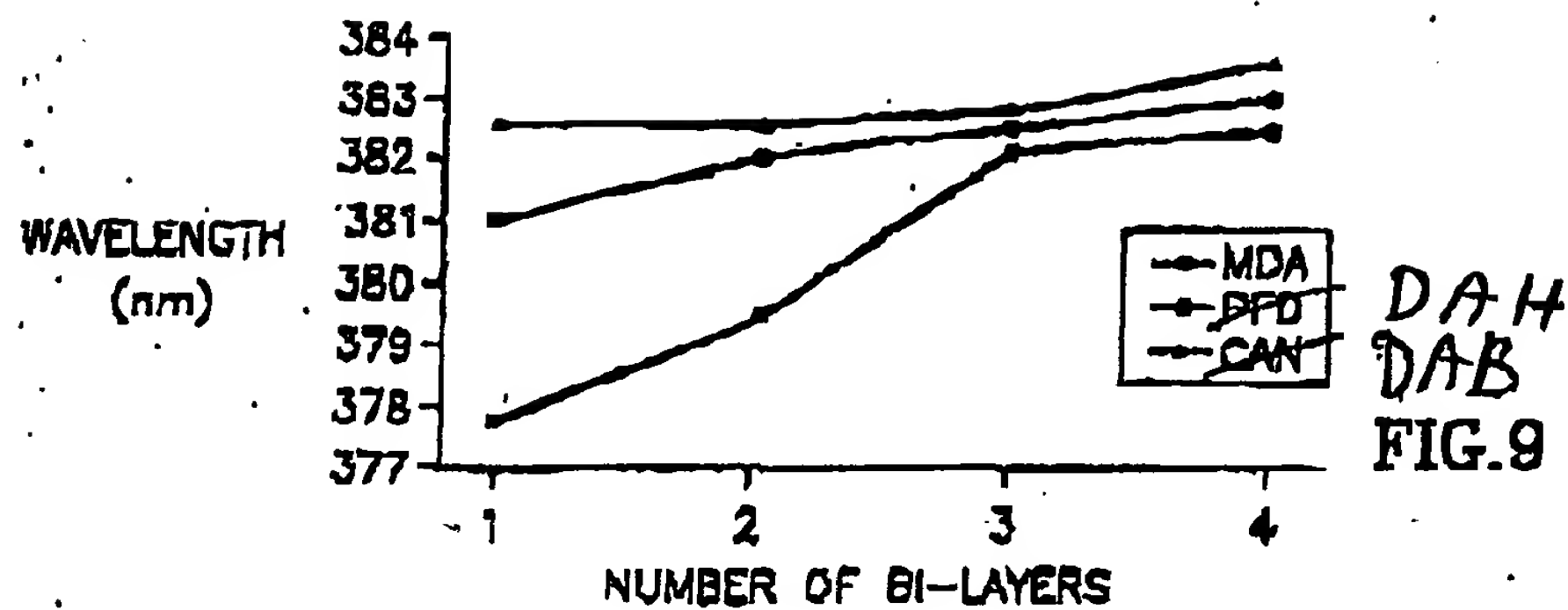


FIG.8



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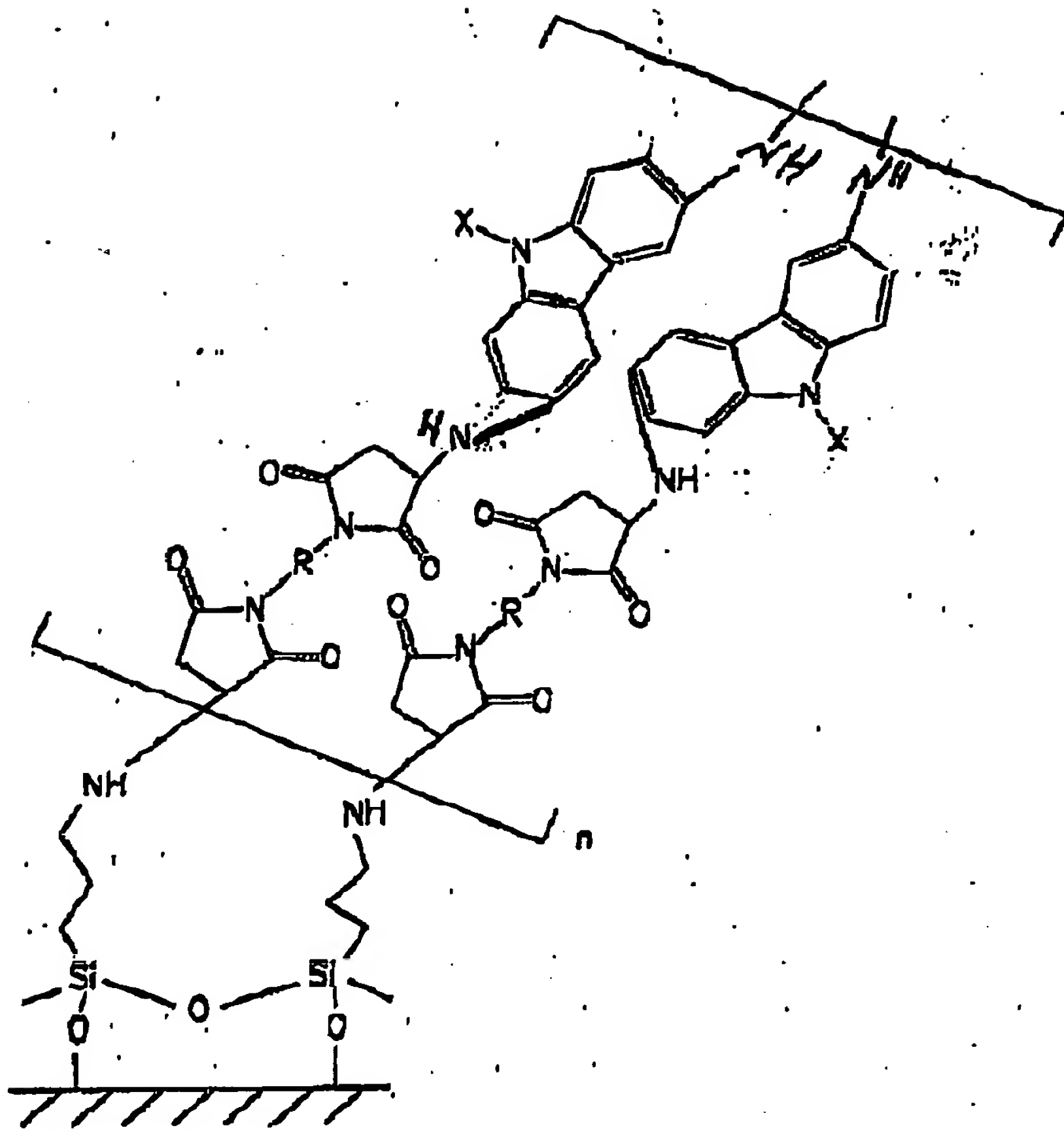


FIG. 11

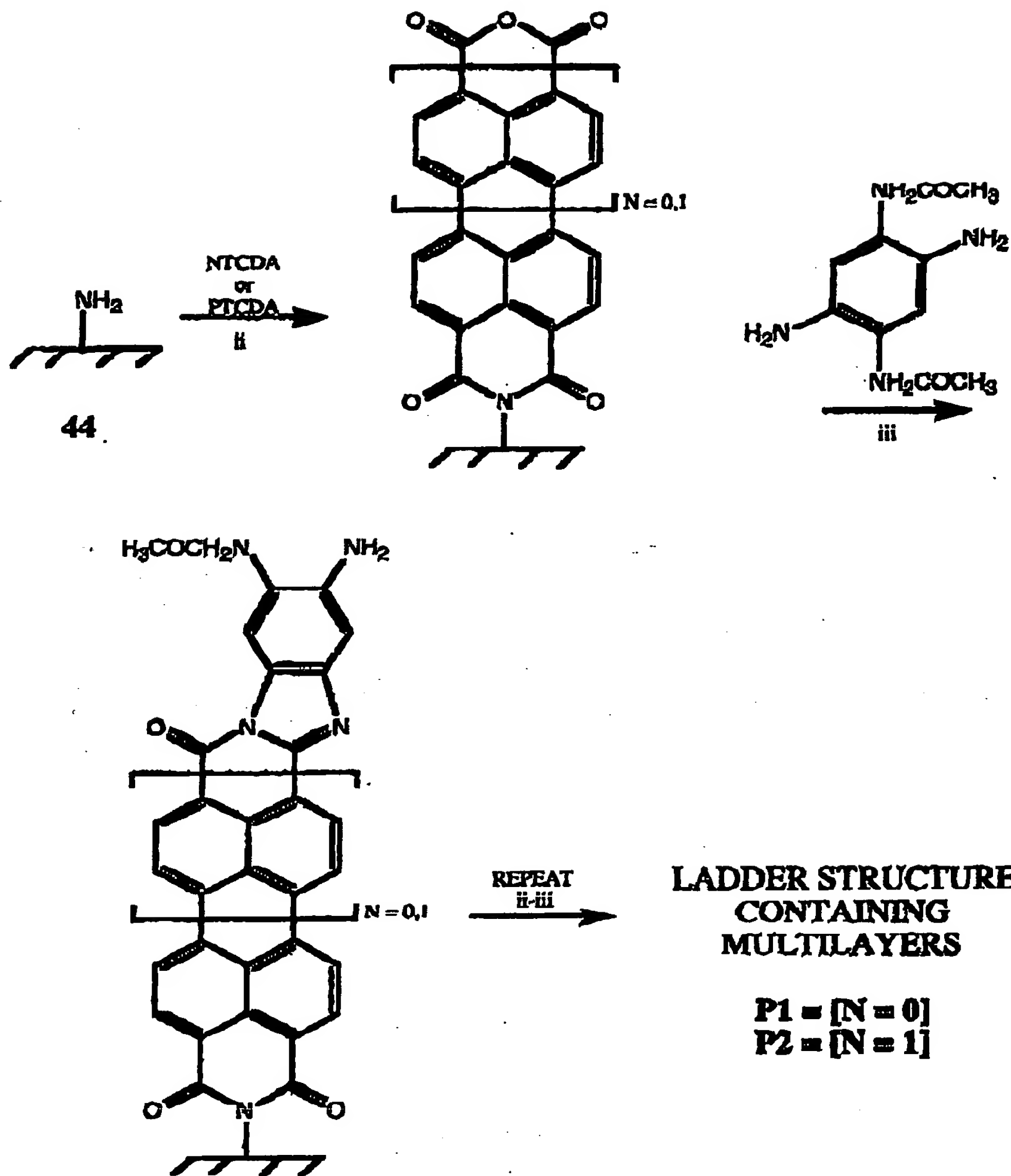


FIG.12A

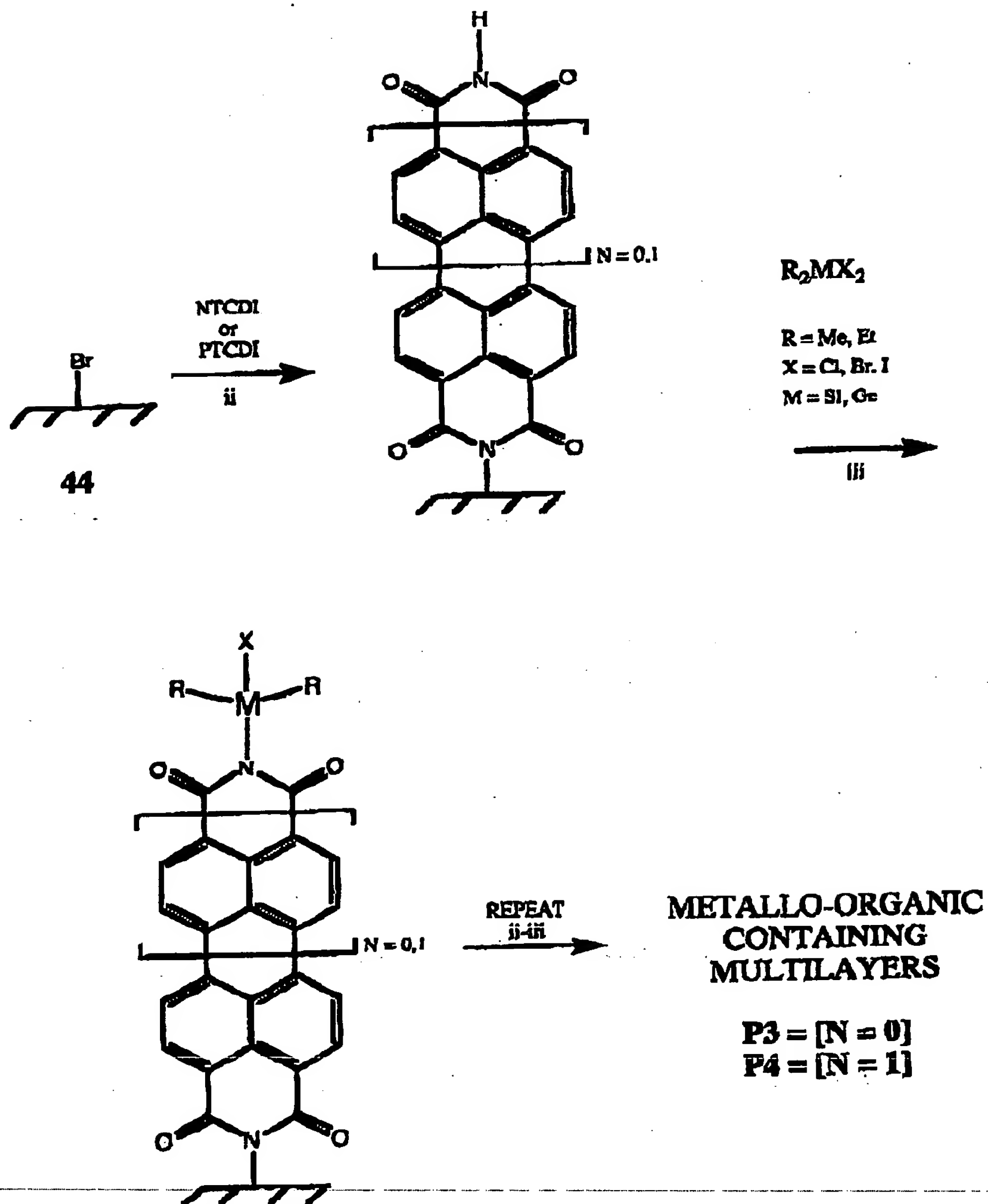


FIG.12B

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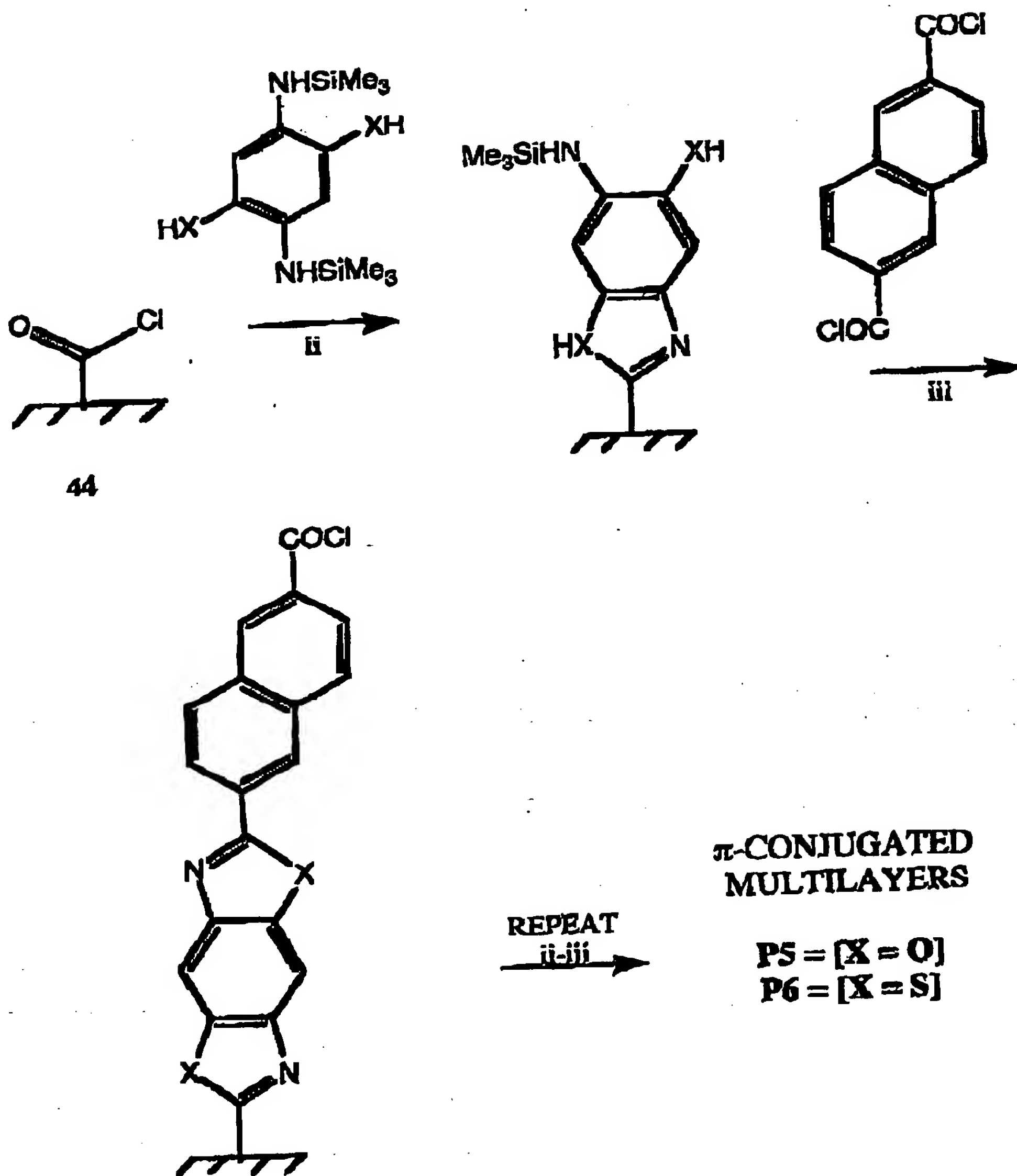


FIG.12C

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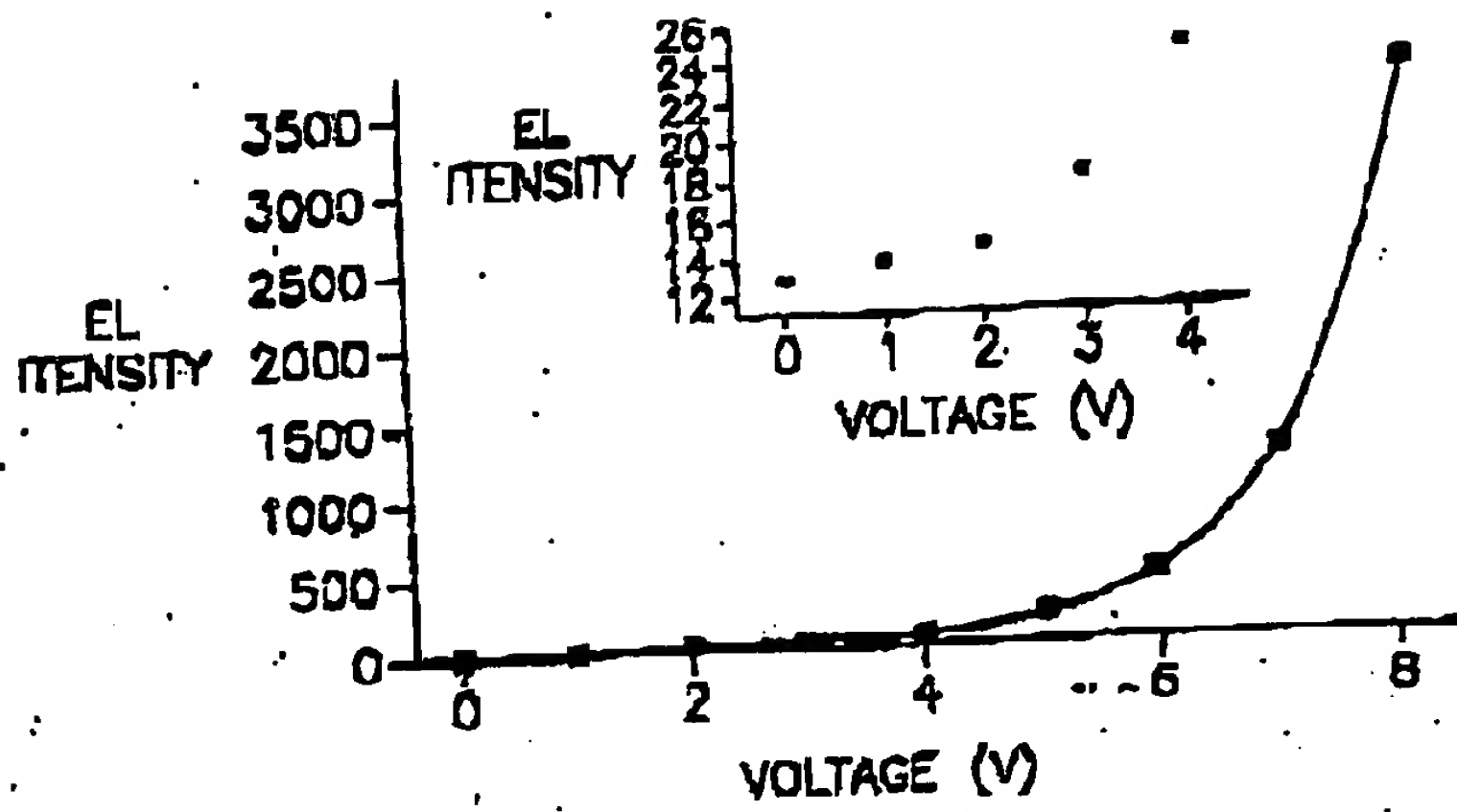


FIG. 13A

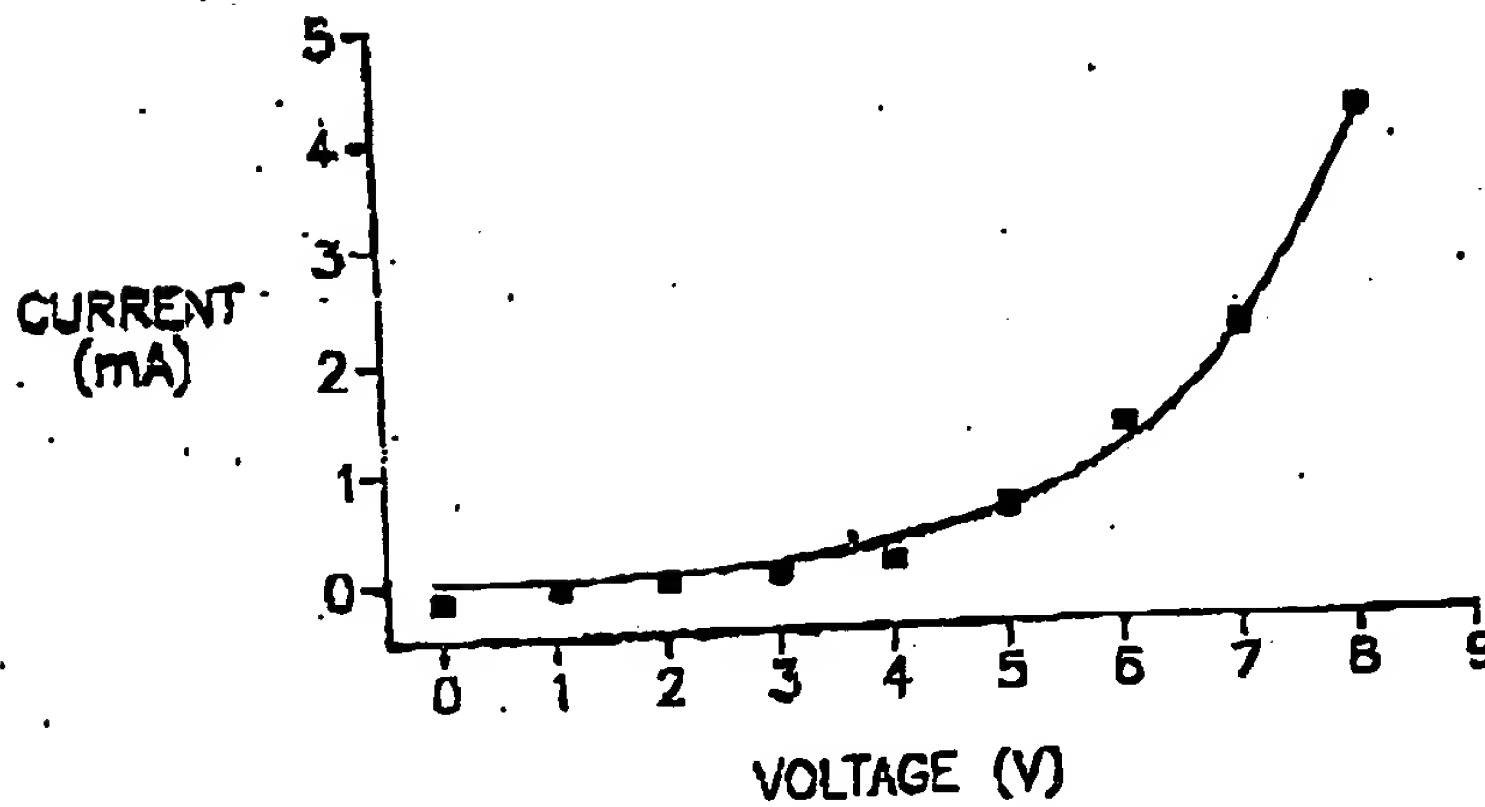
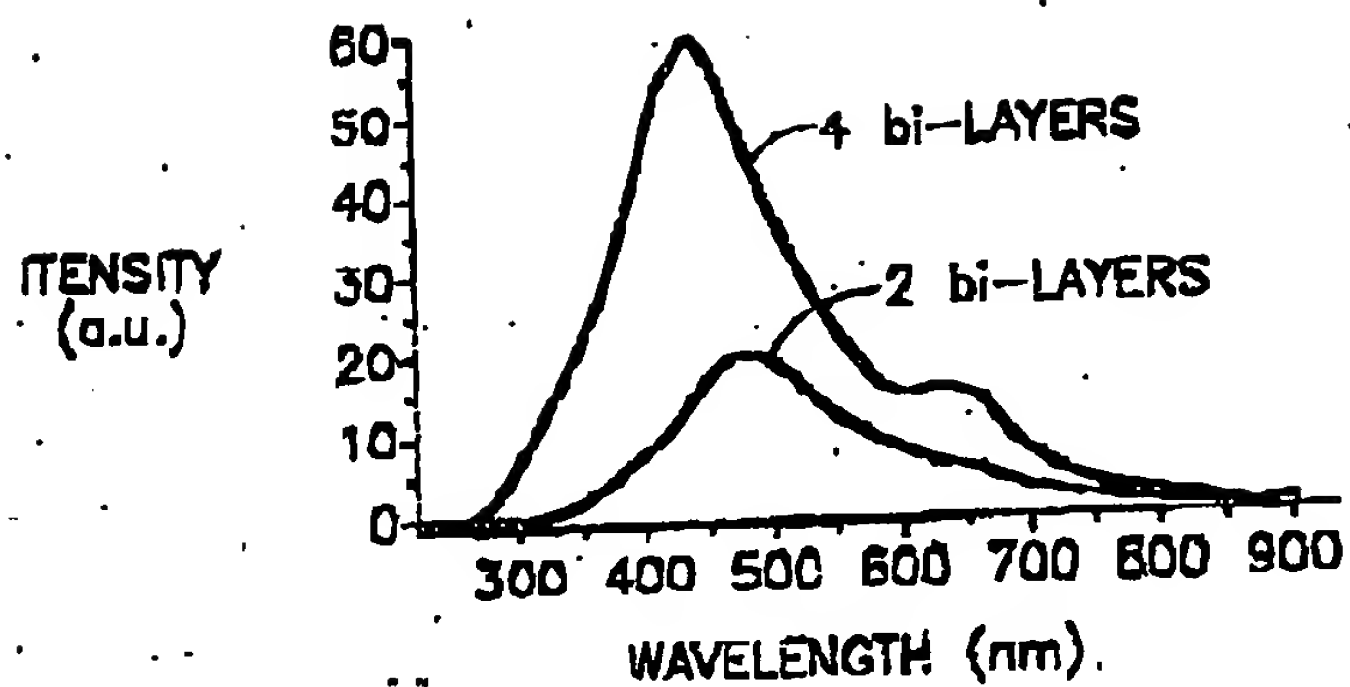


FIG. 13B

**THE**



**FIG.14**

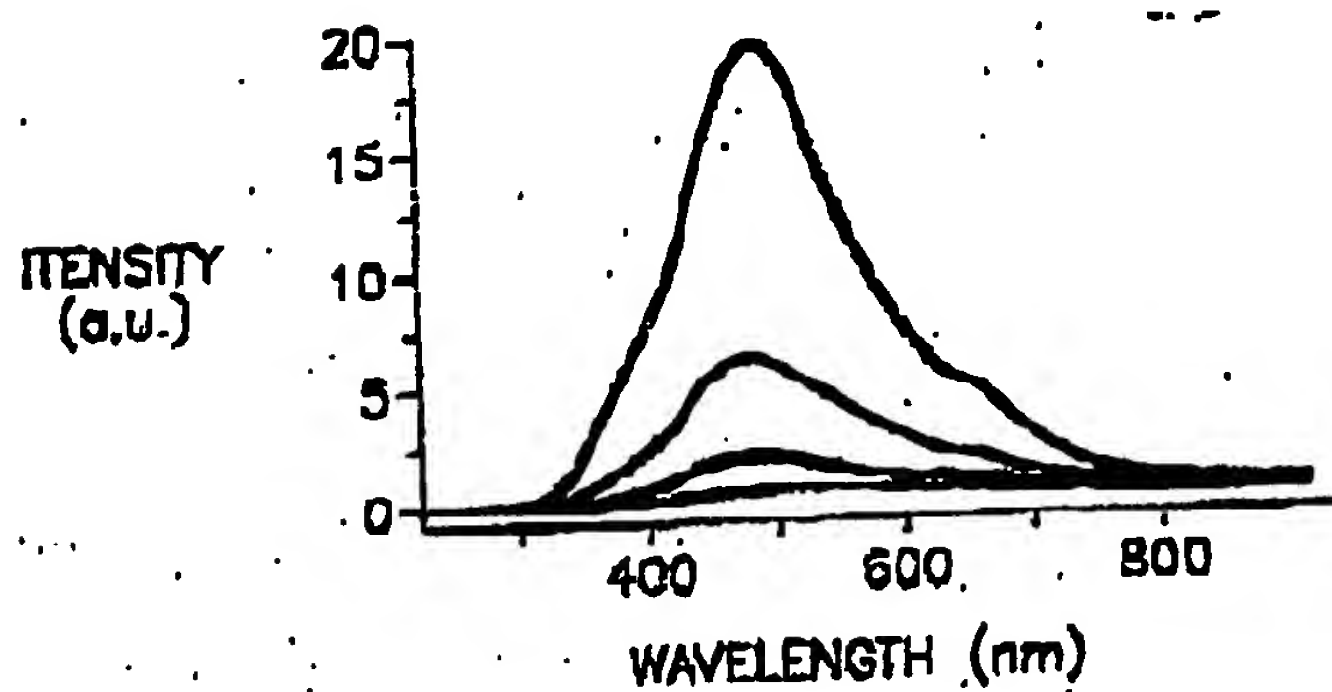


FIG.15.

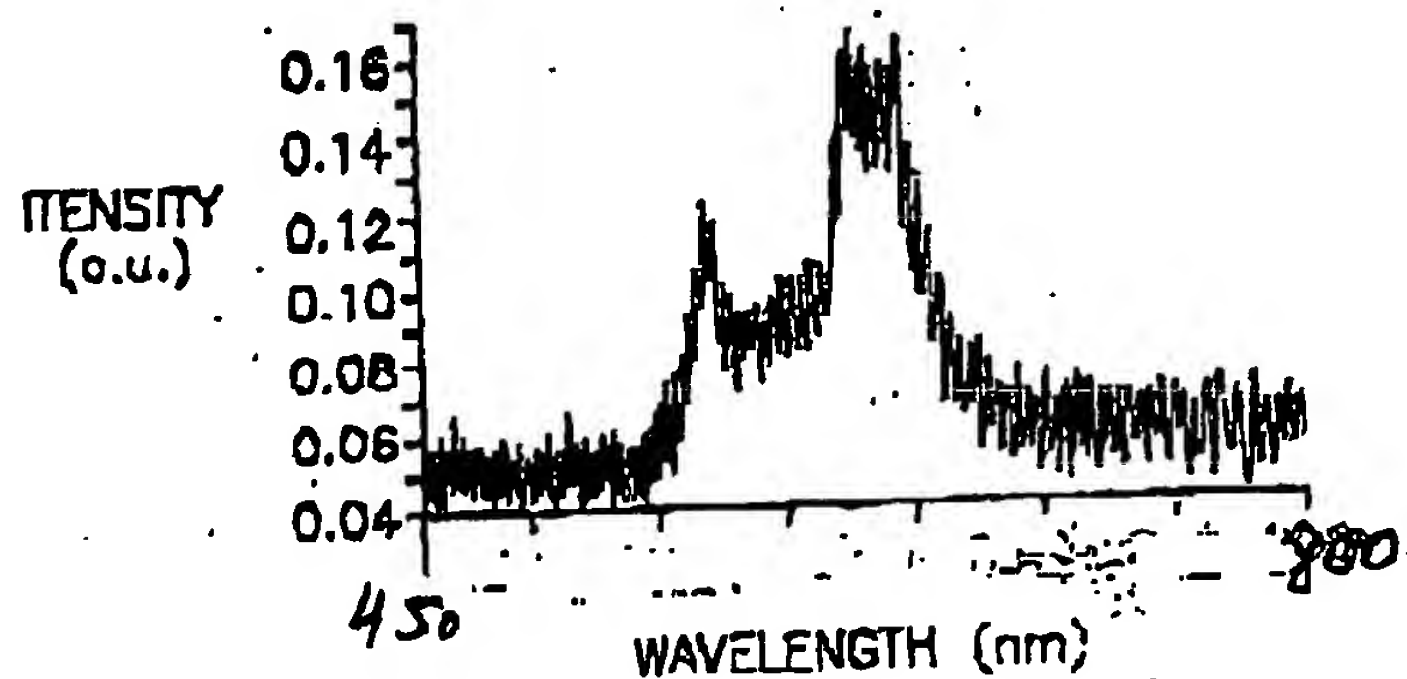


FIG.16

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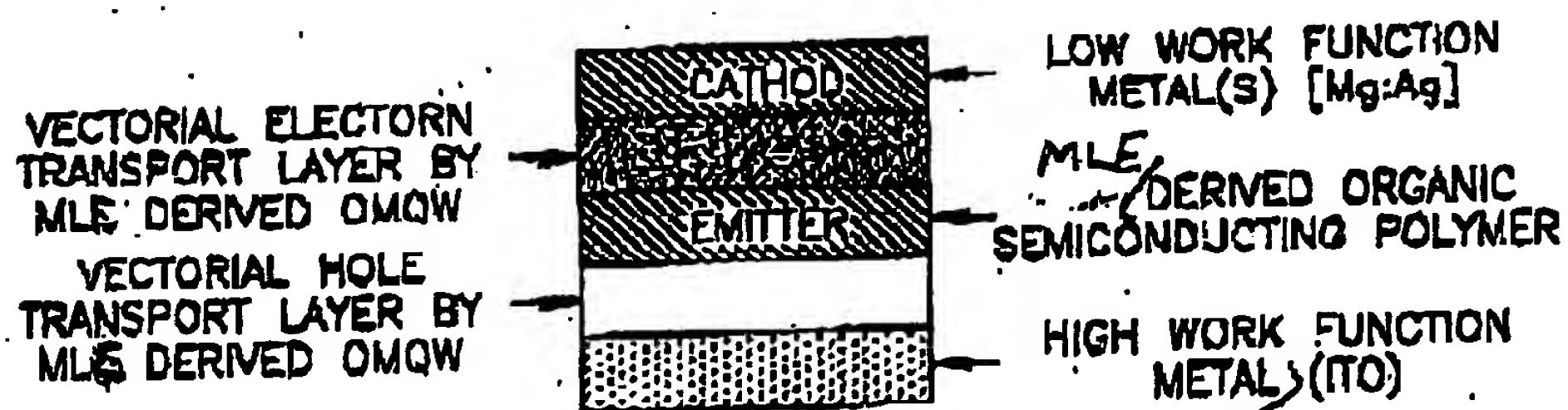


FIG.17A

*or semiconductor*

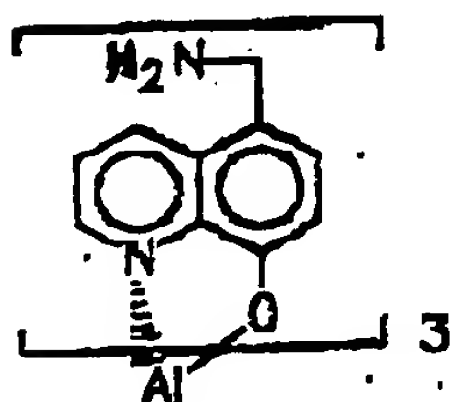
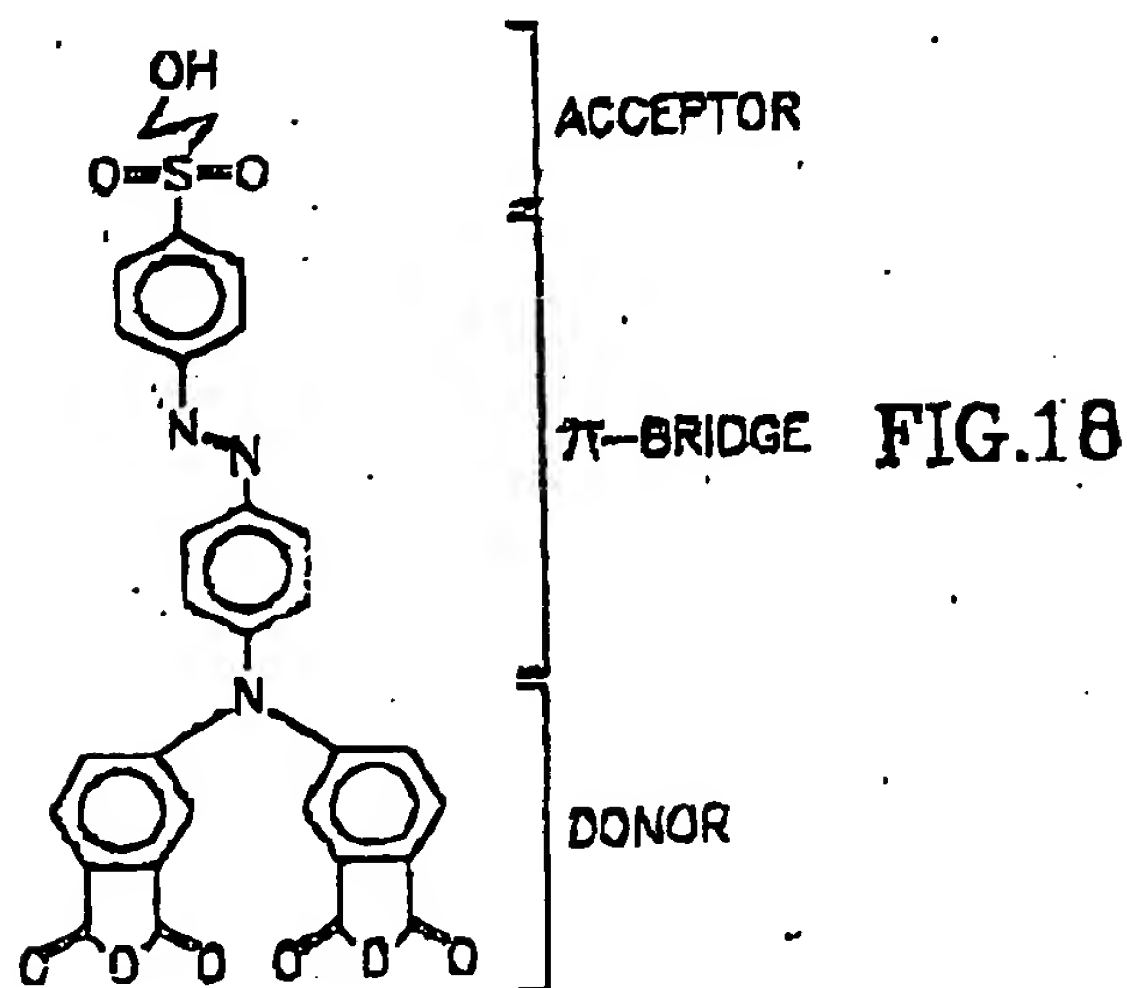
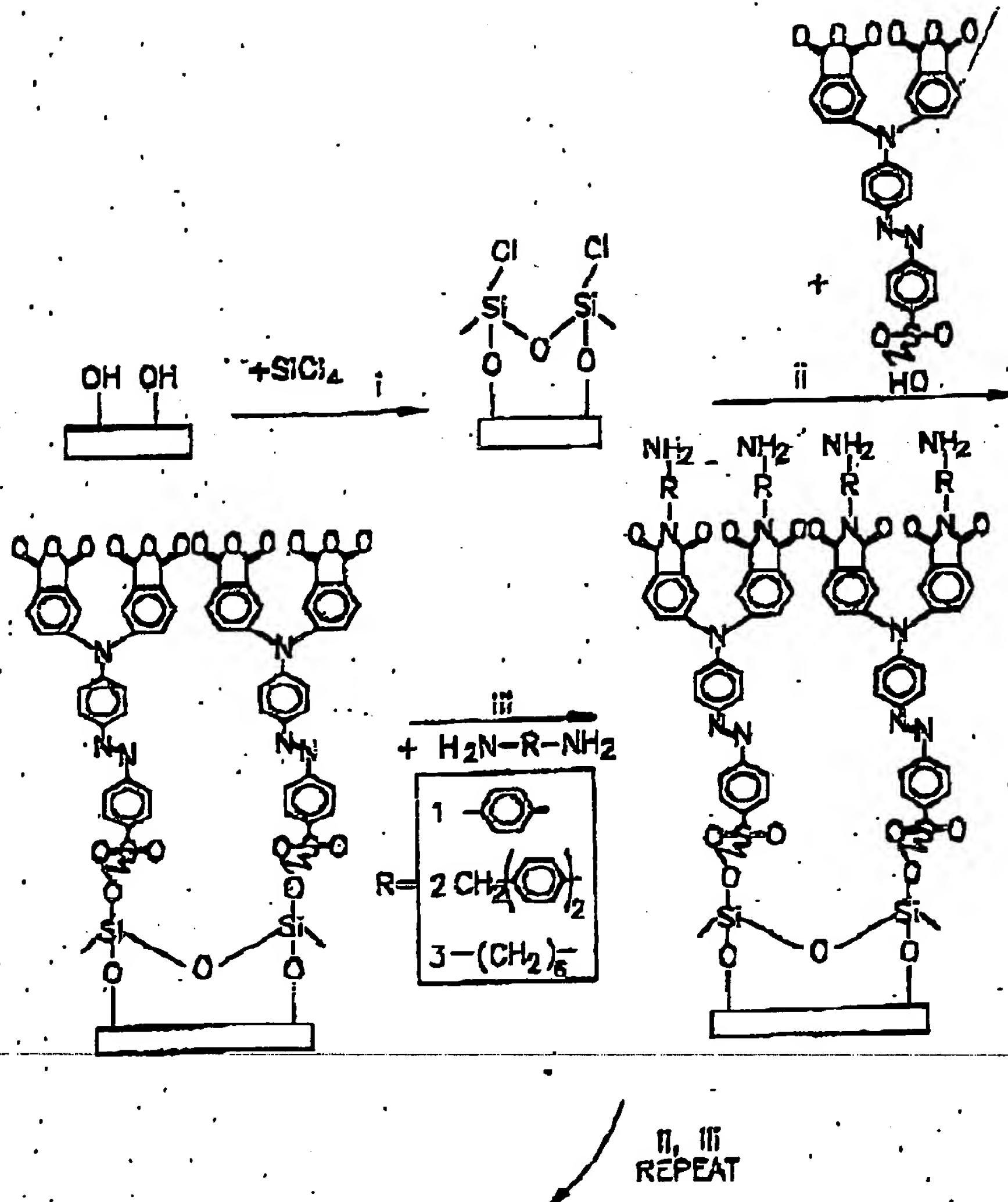


FIG.17B







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FIG.19